BASE LOAD POWER HUB (BLPH)
EMCS CABINET
WIRING DIAGRAMS AND TERMINAL STRIPS

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	25.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.08.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
COVER PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00024

SHEET 001

REV. 3

PAG. NR.	REVISION									TITLE
	0	1	2	3	4	5	6	7	8	
001	X	X	X	X						BASE LOAD POWER HUB (BLPH) COVER PAGE
002	X	X	X	X						BASE LOAD POWER HUB (BLPH) INDEX
003	X			X						BASE LOAD POWER HUB (BLPH) LEGEND
004	X	X	X	X						BASE LOAD POWER HUB (BLPH) SYMBOL LEGEND
005	X	X		X						BASE LOAD POWER HUB (BLPH) TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS
016	X			X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1
017	X			X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2
018	X			X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
019	X			X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
020	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN
021	X			X						BASE LOAD POWER HUB (BLPH) SPARE PAGE
022	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - 230Vac / 24Vdc POWER DISTRIBUTION
023	X			X						BASE LOAD POWER HUB (BLPH) SPARE PAGE
024	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - BREAKER FAULT ALARM CIRCUIT
025	X			X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - SHIELD / GROUND CONNECTION
026	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - FAULT ALARM SIGNALS TO DCS
027	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - 24Vdc POWER DISTRIBUTION
028	X	X		X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - AO SWITCH COMMAND
029	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - RACK "1"-SEL-2241
030	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - RACK "2"-SEL-2241

PAG. NR.	REVISION									TITLE
	0	1	2	3	4	5	6	7	8	
031	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - TYPICAL WIRING DIGITAL INPUT
032	X	X	X	X						BASE LOAD POWER HUB (BLPH) SPARE PAGE
033	X	X		X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - TYPICAL WIRING DIGITAL OUTPUT
034	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - TYPICAL WIRING ANALOG INPUT
035	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - TYPICAL WIRING ANALOG OUTPUT
036	X	X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - DIGITAL INPUT SIGNALS
037		X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - DIGITAL OUTPUT SIGNALS
038		X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - ANALOG INPUT SIGNALS
039		X	X	X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - ANALOG OUTPUT SIGNALS (SIGNAL PART)
040		X		X						BASE LOAD POWER HUB (BLPH) EMCS PANEL - ANALOG OUTPUT SIGNALS (SWITCH PART)

PAG. NR.	REVISION									TITLE
	0	1	2	3	4	5	6	7	8	

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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
INDEX

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00024

SHEET 002

REV. 3

NUMBER	SYMBOL	REFERENCE	DESCRIPTION
01		IEC 60417-5031	DIRECT CURRENT
02		IEC 60417-5032	ALTERNATING CURRENT
03		IEC 60417-5033	BOTH DIRECT AND ALTERNATING CURRENT
04		.	THREE-PHASE ALTERNATING CURRENT
05		IEC 60417-5017	EARTH (GROUND) TERMINAL
06		IEC 60417-5019	PROTECTIVE CONDUCTOR TERMINAL
07		IEC 60417-5020	FRAME OR CHASSIS TERMINAL
08		IEC 60417-5021	EQUIPOTENTIALITY
09		IEC 60417-5007	ON (SUPPLY)
10		IEC 60417-5008	OFF (SUPPLY)
11		IEC 60417-5172	EQUIPMENT PROTECTED THROUGHOUT BY DOUBLE INSULATION OR REINFORCED INSULATION
12		.	CAUTION RISK OF ELECTRIC SHOCK
13		IEC 60417-5041	CAUTION HOT SURFACE
14		ISO 7000-0434	CAUTION RISK OF DANGER
15		IEC 60417-5266	IN POSITION OF A BI-STABLE PUSH CONTROL
16		IEC 60417-5269	OUT POSITION OF A BI-STABLE PUSH CONTROL

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CROSSWIND

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EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
LEGEND

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

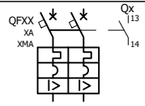
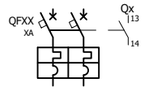
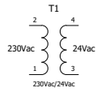
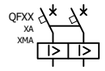
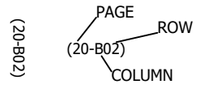
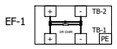
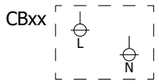
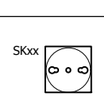
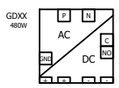
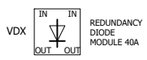
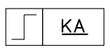
SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00024

SHEET 003

REV. 3

	ROTATIVE MAIN SWITCH -		ELECTRIC FAN WITH FAULT DETECTION		I.S. BARRIER (NOTE: AB-xx FOR ACTIVE BARRIERS, ZB-xx FOR ZENER BARRIERS)
	DIFFERENTIAL RESIDUAL CURRENT CIRCUIT BREAKER WITH AUXILIARY CONTACT		PANEL ELECTRIC HEATER -		GALVANIC ISOLATOR -
	AUTOMATIC CIRCUIT BREAKER WITH AUXILIARY CONTACT		AC/AC VOLTAGE TRANSFORMER -		FUSED TERMINAL -
	DISCONNECTOR WITH FUSE -		THERMOSTATE NO CONTACT -		KNIFE TERMINAL -
	PURE RESIDUAL CURRENT CIRCUIT BREAKER		NO CONTACT -		FEED THROUGH TERMINAL -
	SURGE ARRESTOR -		NC CONTACT -		PAGE CROSS REFERENCE INDICATION -
	LINE FILTER MODULE -		DOOR LIMIT SWITCH -		COMMON BOX -
	SERVICE SOCKET -		FRONT PANEL ALARM BUZZER -		- -
	AC/DC FEEDER -		INTERNAL LIGHT OR FRONT PANEL LIGHT		- -
	REDUNDANCY DIODE MODULE -		MUSHROOM PUSHBUTTON INDICATOR NORMAL PUSHBUTTON INDICATOR		- -
	RELAYS -		ROTATIVE SELECTOR INDICATOR -		- -
	STEP RELAYS -		RESISTOR -		- -
	- -		- -		- -

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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS SYMBOL LEGEND

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

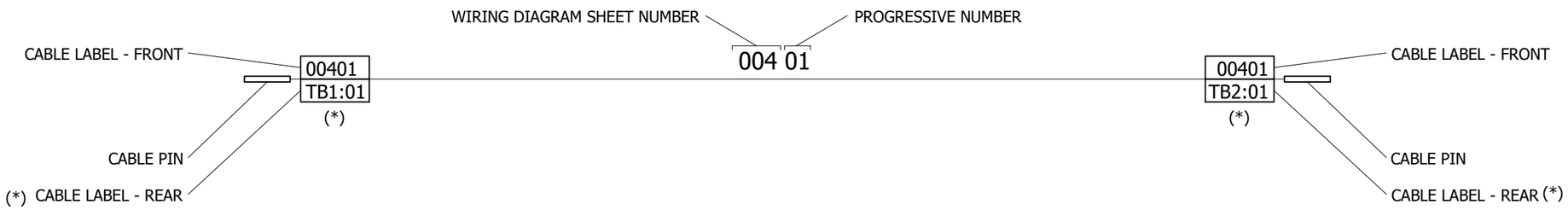
SHEET 004

REV. 3

COLOR ACRONYMS LIST :

RD - RED
BK - BLACK
BL - BLUE
LB - LIGHT BLUE
GR - GREY
GN - GREEN
YE - YELLOW
Y/G - YELLOW/GREEN
BR - BROWN
WH - WHITE

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

	CABINET
P.E. EARTH	○○○○○○○○○○○○○○○
I.E. EARTH	○○○○○○○○○○○○○○○

EARTH ACRONYMS LEGEND :

P.E. (GND) - PROTECTION EARTH (GROUND, FRAME CHASSIS)
I.E. (F.E.) - INSTRUMENT EARTH (NOISELESS), FUNCTIONAL EARTH

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CROSSWIND

ROSETTI MARINO

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EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

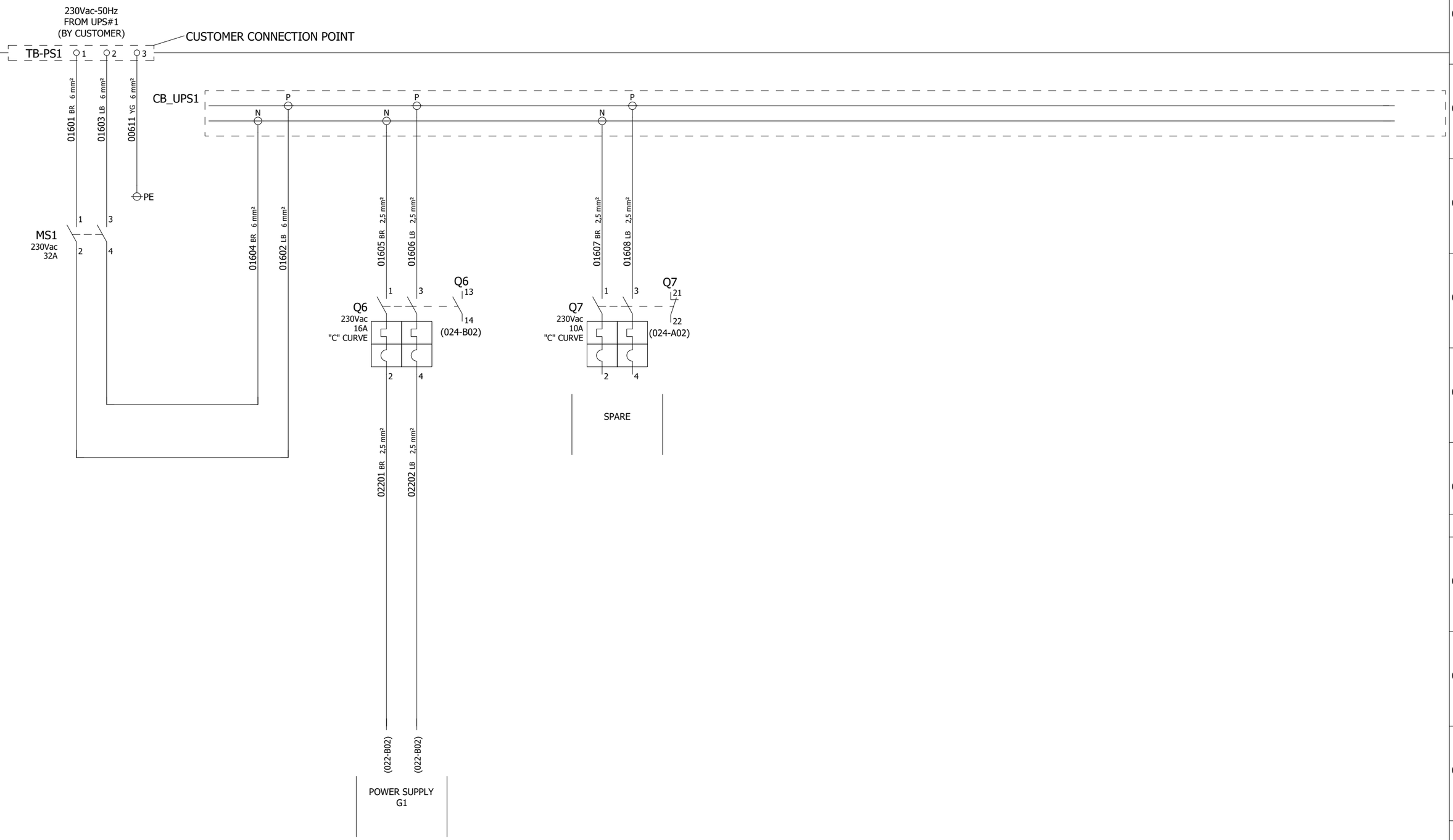
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SHEET 005

REV. 3

A B C D E F G H J K

EMCS PANEL - POWER DISTRIBUTION FROM UPS LINE 1



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CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

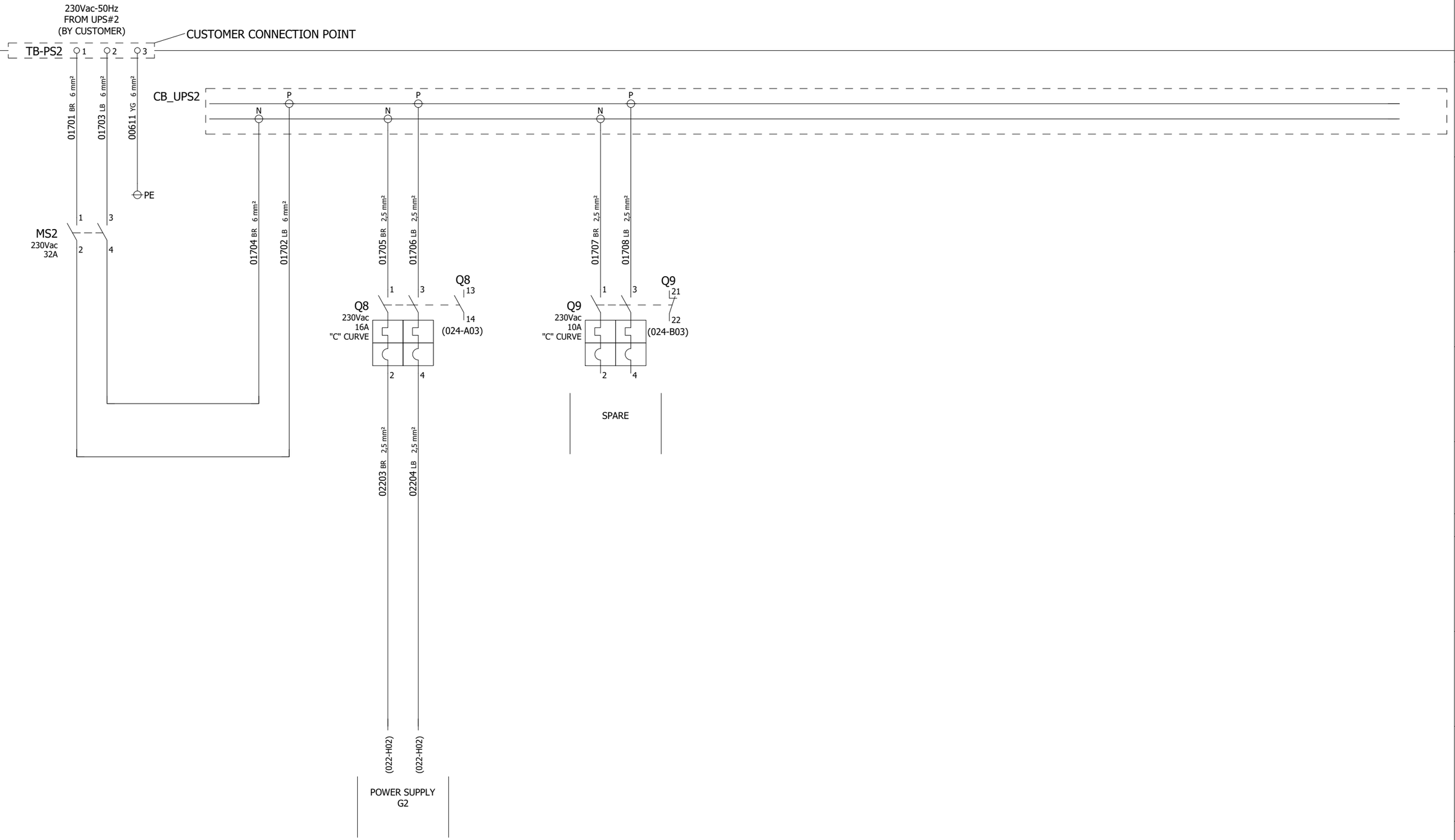
DRAWING NO. 1724000594-IN-DG-00024

SHEET 016

REV. 3

01 02 03 04 05 06 07 08 09 10

EMCS PANEL - POWER DISTRIBUTION FROM UPS LINE 2



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 017

REV. 3

EMCS PANEL - POWER DISTRIBUTION FROM NON UPS

230Vac-50Hz
FROM MCC
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS3 1 2 3

01801 BR 6 mm² — 01803 LB 6 mm² — 00611 YG 6 mm² — PE

CB_SER
(019-A01)

N P N P N P N P

(019-A01)
(019-A01)

01804 LB 6 mm² — 01802 BR 6 mm²

01805 BR 2.5 mm² — 01807 LB 2.5 mm²

01809 BR 2.5 mm² — 01813 LB 2.5 mm²

01814 BR 2.5 mm² — 01815 LB 2.5 mm²

Q1
Q1
230Vac
25A
Id 30mA
1 3 13 14
2 4
(024-G02)

Q2
Q2
230Vac
16A
"C" CURVE
1 3 13 14
2 4
(024-F02)

01806 BR 2.5 mm² — 01808 LB 2.5 mm²

SK1 — 00611 YG 2,5 mm² — PE

SERVICE SOCKET
230Vac 50Hz

Q3
Q3
230Vac
2A
"C" CURVE
1 3 13 14
2 4
(024-E02)

01810 BR 1.5 mm²

S1 11 12

01811 BR 1.5 mm² — 01812 LB 1.5 mm²

H1 x1 x2

INTERNAL LIGHT
230Vac 50Hz
TOTAL CONSUMPTION: 15W

Q4
Q4
230Vac
4A
"C" CURVE
1 3 21 22
2 4
(024-D02)

SPARE

NOTE:
INTERNAL LAMP IS DOUBLE INSULATION DEVICE.
NO EARTH CONNECTION REQUIRED.

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CROSSWIND — ROSETTI MARINO

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EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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SCALE : 1

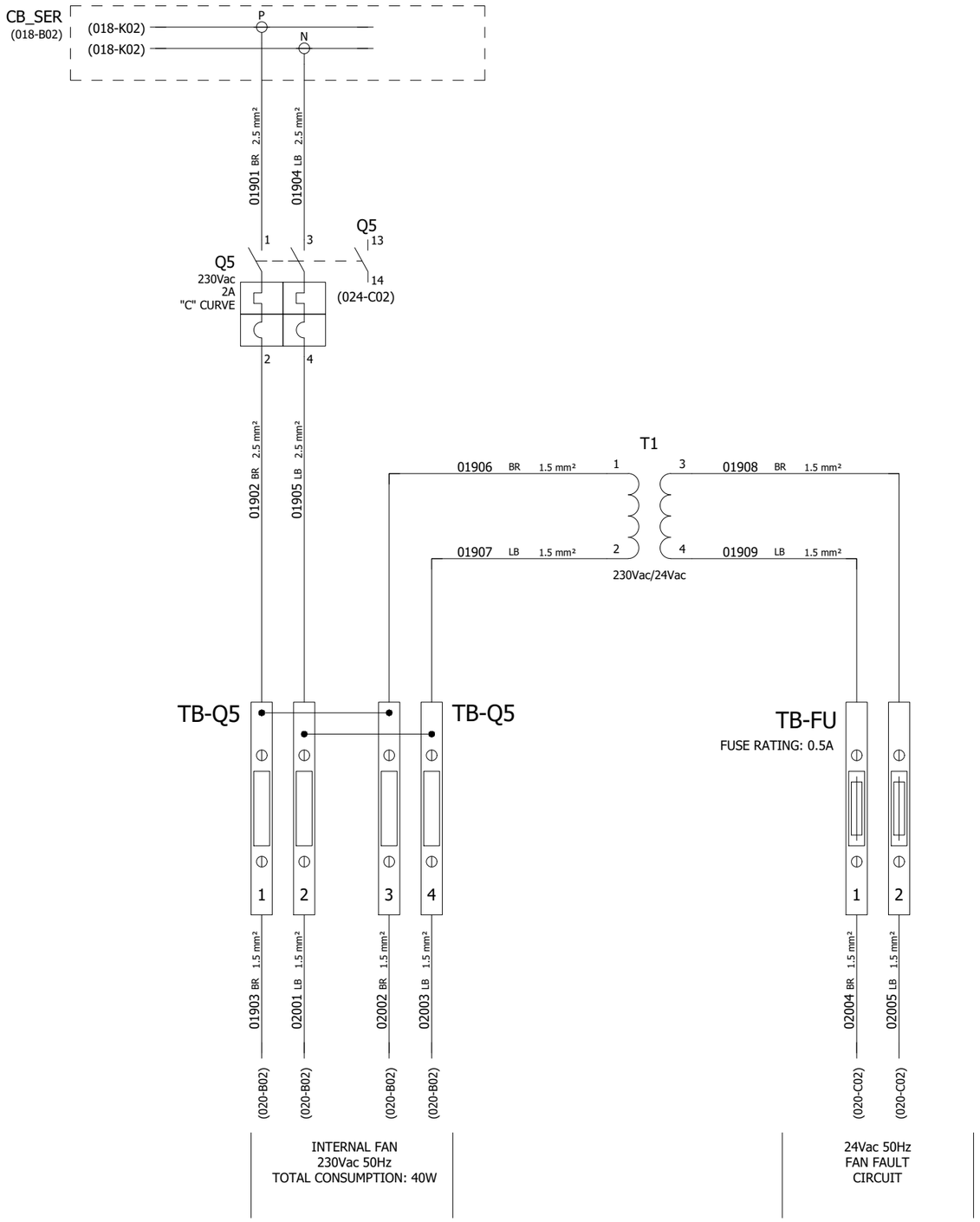
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DRAWING NO.
1724000594-IN-DG-00024

SHEET 018

REV. 3

EMCS PANEL - POWER DISTRIBUTION FROM NON UPS



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EMCS PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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SCALE : 1

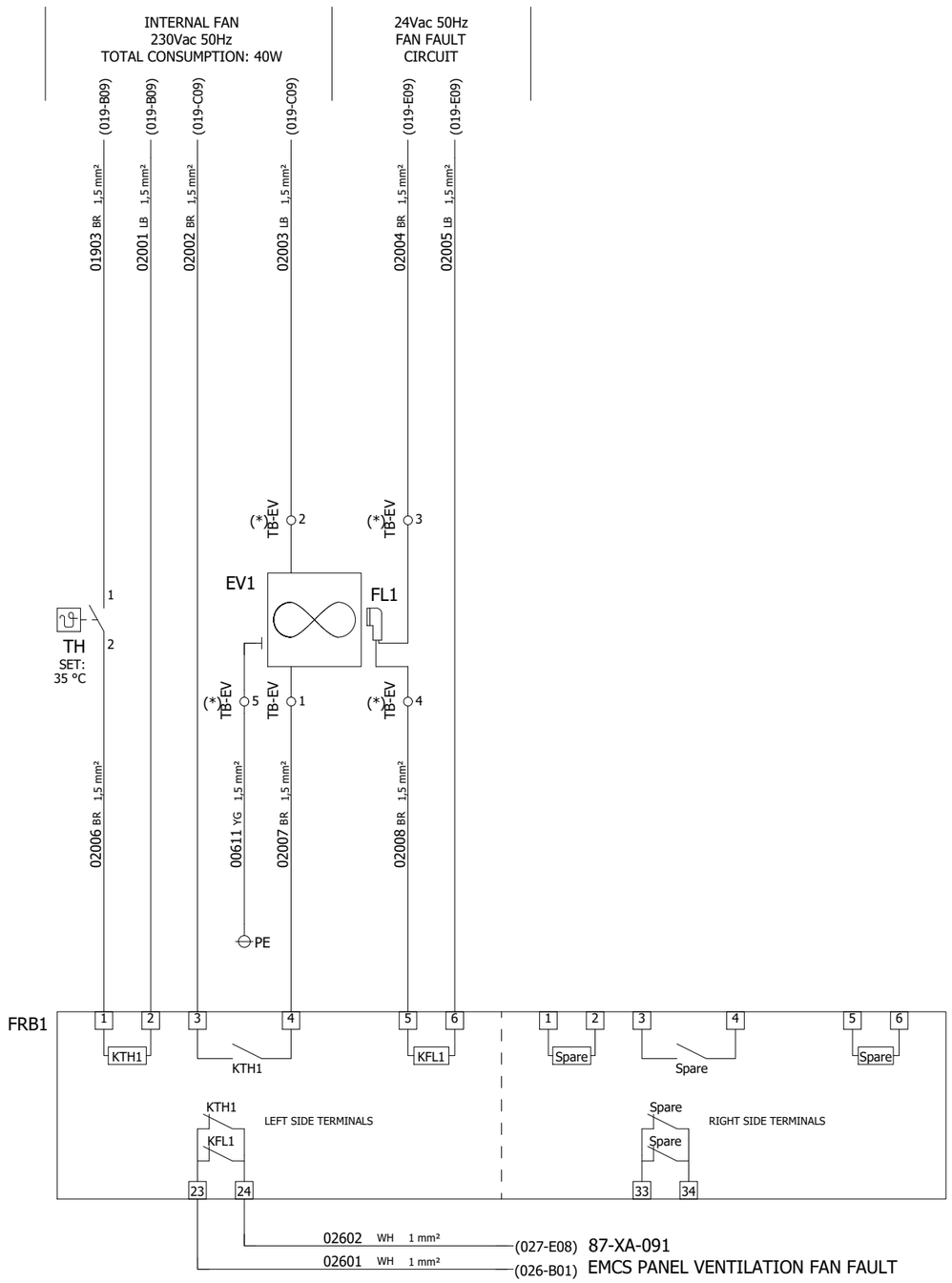
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DRAWING NO. 1724000594-IN-DG-00024

SHEET 019

REV. 3

EMCS PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN & HEATER



NOTE (*):
TB-EV IS A FEED THROUGH TERMINAL BOARD FOR
PRE-WIRED ITEMS CONNECTION. FOR THIS REASON,
WIRE NUMBERS WILL BE THE SAME ON BOTH SIDES.

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TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 020

REV. 3

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REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	25.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.08.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00024

SHEET 021

REV. 3

EMCS PANEL - 230Vac/24Vdc POWER DISTRIBUTION

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

(016-D09) 02201 BR 2.5 mm²
(016-D09) 02202 LB 2.5 mm²

(017-D09) 02203 BR 2.5 mm²
(017-D09) 02204 LB 2.5 mm²

G1
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

G2
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

L(+) N(-) AC DC 13 14 PE + + - -

02603 WH 1 mm² (027-F09)
00611 YG 2,5 mm² PE

02213 WH 1 mm²
02604 WH 1 mm² (026-B02)
00611 YG 2,5 mm² PE

87-XA-092
EMCS PANEL POWER SUPPLY
24Vdc FAILURE

87-XA-092
EMCS PANEL POWER SUPPLY
24Vdc FAILURE

02205 RD 4 mm² 02207 BU 4 mm² 02206 RD 4 mm² 02210 BU 4 mm²

02214 RD 4 mm² 02216 BU 4 mm² 02215 RD 4 mm² 02219 BU 4 mm²

VD1
20A
WEIDMULLER PRO DM 20
code 2486080000

VD2
20A
WEIDMULLER PRO DM 20
code 2486080000

IN1+ IN1- IN2+ IN2- OUT+ OUT-

02208 RD 6 mm² 02211 BU 6 mm²

02217 RD 6 mm² 02220 BU 6 mm²

Q10
24Vdc
32A
"C" CURVE
1 3 13 14 2 4
(024-G04)

Q11
24Vdc
32A
"C" CURVE
1 3 13 14 2 4
(024-F04)

02209 RD 6 mm² 02212 BU 6 mm²

02218 RD 6 mm² 02221 BU 6 mm²

CB_24Vdc
(027-A01) + -

(027-A01)
(027-A01)

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - 230Vac / 24Vdc POWER DISTRIBUTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 022

REV. 3

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REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	05.08.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

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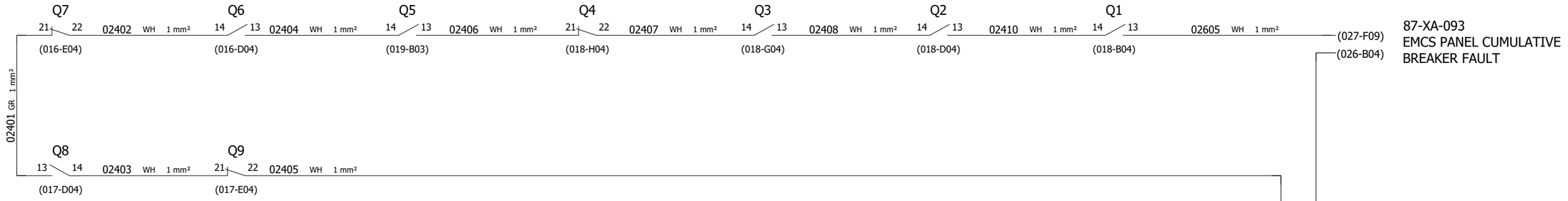
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SHEET 023

REV. 3

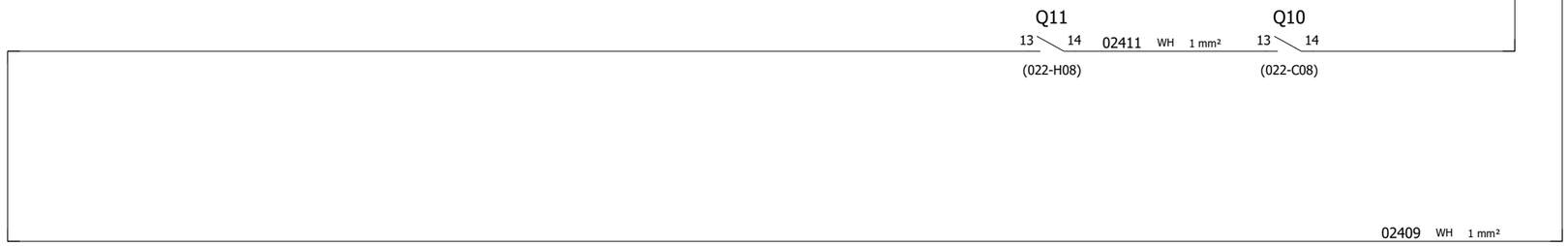
EMCS PANEL - BRAKER FAULT ALARM CIRCUIT

230Vac CIRCUIT BREAKER



87-XA-093
EMCS PANEL CUMULATIVE
BREAKER FAULT

24Vdc CIRCUIT BREAKER



NOTE : SPARE CIRCUIT BREAKER FAULT CONTACT TO BE CONNECTED ON NORMALLY CLOSE CONTACT.
CHANGE CONNECTION TO NORMALLY OPEN CONTACT WHEN THE BREAKER WILL BE USED

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - BREAKER FAULT ALARM CIRCUIT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

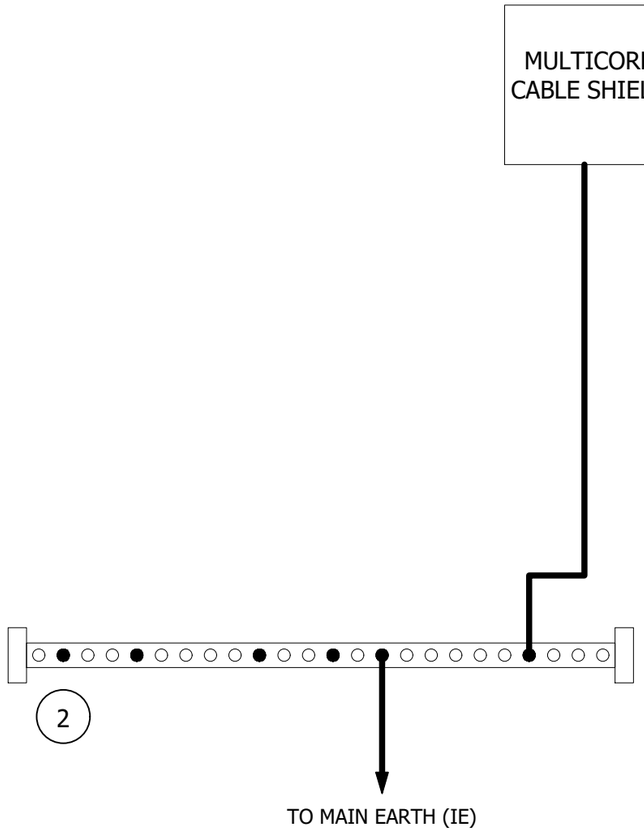
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1724000594-IN-DG-00024

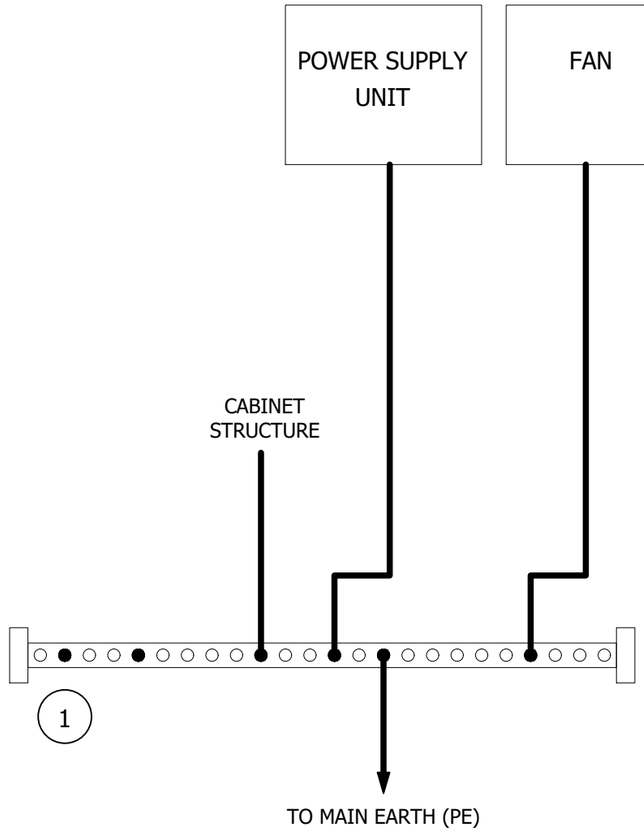
SHEET 024

REV. 3

EMCS PANEL - SHIELD/GROUND CONNECTION

POS.	EARTH TYPE	DESCRIPTION SYSTEM EARTH
1	P.E. EARTH	PROTECTION EARTH (GROUND, FRAME CHASSIS)
2	I.E. EARTH	INSTRUMENTAL EARTH





REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - SHIELD / GROUND CONNECTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

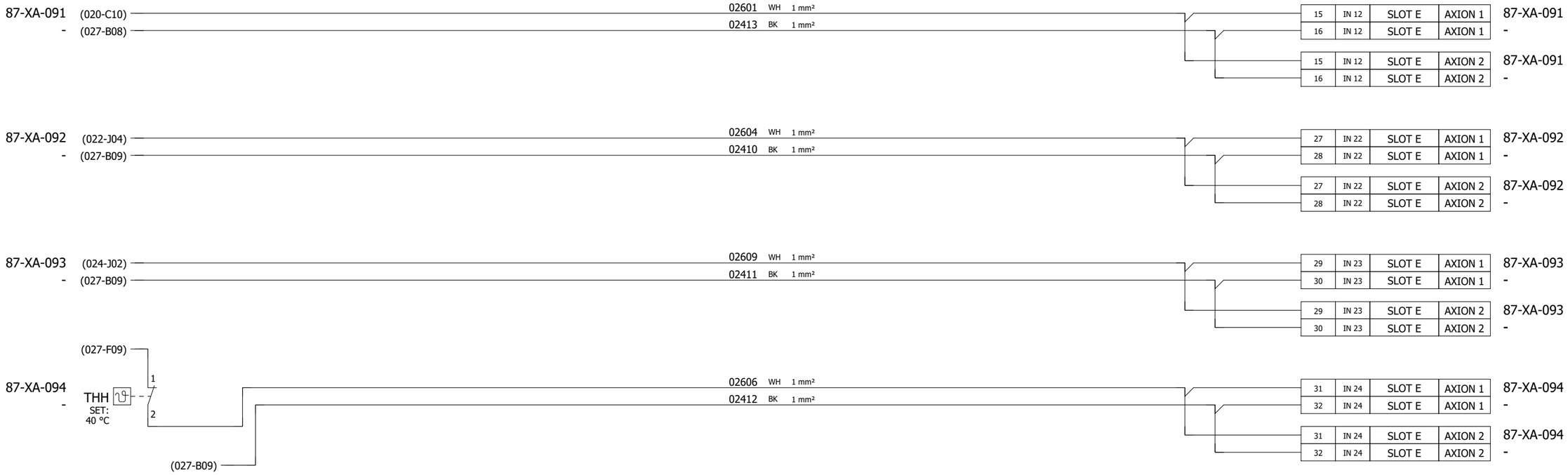
A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 025

REV. 3

EMCS PANEL - FAULT ALARM SIGNALS TO DCS



CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
87-XA-091	EMCS PANEL VENTILATION FAN FAULT
87-XA-092	EMCS PANEL POWER SUPPLY & DIODES FAILURE
87-XA-093	EMCS PANEL CUMULATIVE BREAKER FAULT
87-XA-094	EMCS PANEL HIGH TEMPERATURE ALARM

CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
-	-
-	-
-	-
-	-
-	-

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - FAULT ALARM SIGNALS TO DCS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

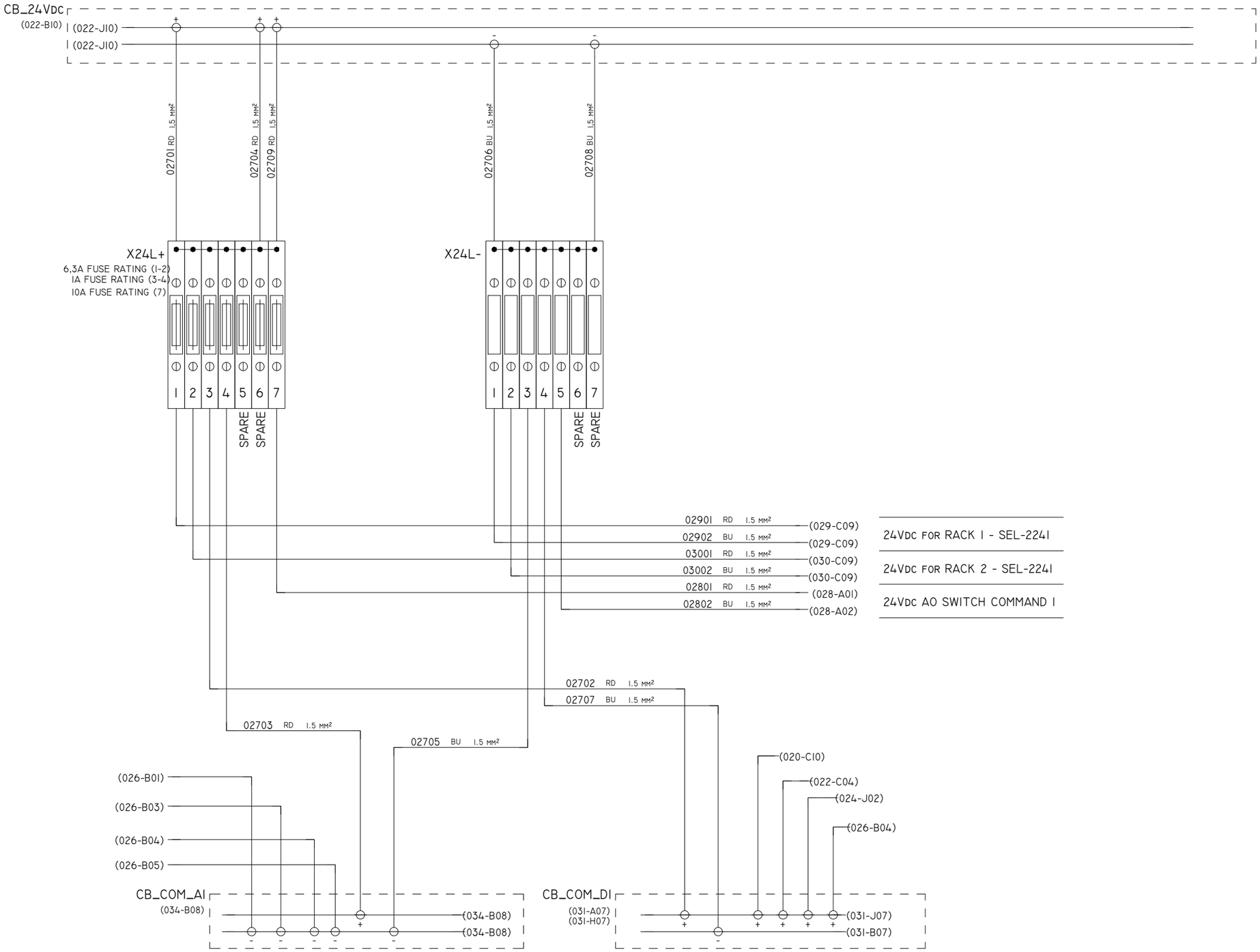
A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 026

REV. 3

EMCS PANEL - 24VDC POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	05.08.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT NR. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - 24VDC POWER DISTRIBUTION

CONTRACT NO./TITLE CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 027

REV. 3

EMCS PANEL - AO SWITCH COMMAND

(027-E07)
(027-E07)

02802 BU 1.5 mm²
02801 RD 1.5 mm²
02803 BK 1.5 mm²
02805 BK 1.5 mm²
02806 BK 1.5 mm²
02804 BK 1.5 mm²

29	OUT 15	SLOT F	AXION 1	87-XA-054
30	OUT 15	SLOT F	AXION 1	-
31	OUT 16	SLOT F	AXION 1	87-XA-054
32	OUT 16	SLOT F	AXION 1	-
29	OUT 15	SLOT F	AXION 2	87-XA-054
30	OUT 15	SLOT F	AXION 2	-
31	OUT 16	SLOT F	AXION 2	87-XA-054
32	OUT 16	SLOT F	AXION 2	-

CB_AO_COMMAND_1
(035-A06)
(035-B06)
(035-B06)

CB_AO_COMMAND_2
(035-A08)
(035-B08)
(035-B08)

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - AO SWITCH COMMAND

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 028

REV. 3

EMCS PANEL - RACK 1-SEL-2241

A	B	C	D	E	F	G	H	I	J
SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6	SLOT 7	SLOT 8	SLOT 9	SLOT 10
RTAC MODULE CARD SEL-2241	POWER SUPPLY (24Vdc) SEL-2243	ANALOG INPUT CARD SEL-2245-2	ANALOG OUTPUT CARD SEL-2245-3	DIGITAL INPUT CARD SEL-2244-2	DIGITAL OUTPUT CARD SEL-2244-3	SPARE	SPARE	SPARE	SPARE

TO VNET/IP
IEC61850 LINKS
(SERVER ITER)

\+ 02901 RD 1,5 mm² (027-E06)

\- 02902 BU 1,5 mm² (027-E06)

POWER SUPPLY LINE
24Vdc FROM X24L

REFER TO DOC. N. 1724000594-IN-DG-00016
"NETWORK CONNECTION DIAGRAM"

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	05.08.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - RACK "1"-SEL-2241

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 029

REV. 3

EMCS PANEL - RACK 2-SEL-2241

A	B	C	D	E	F	G	H	I	J
SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6	SLOT 7	SLOT 8	SLOT 9	SLOT 10
RTAC MODULE CARD SEL-2241	POWER SUPPLY (24Vdc) SEL-2243	ANALOG INPUT CARD SEL-2245-2	ANALOG OUTPUT CARD SEL-2245-3	DIGITAL INPUT CARD SEL-2244-2	DIGITAL OUTPUT CARD SEL-2244-3	SPARE	SPARE	SPARE	SPARE

TO VNET/IP
IEC61850 LINKS
(SERVER ITER)

\+ 03001 RD 1,5 mm² (027-E06)

\- 03002 BU 1,5 mm² (027-E07)

POWER SUPPLY LINE
24Vdc FROM X24L

REFER TO DOC. N. 1724000594-IN-DG-00016
"NETWORK CONNECTION DIAGRAM"

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - RACK "2"-SEL-2241

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 030

REV. 3

EMCS PANEL - TYPICAL WIRING DIGITAL INPUT (COMMON NEGATIVE)

EMCS_DI01

SEL - DIGITAL INPUT CARD - SEL-2244-2 - AXION RACK FIRST CARD
DIGITAL INPUT - 24 POINTS

CARD A + CHANNEL

CARD A − CHANNEL

SEL - DIGITAL INPUT CARD - SEL-2244-2 - AXION RACK SECOND CARD
DIGITAL INPUT - 24 POINTS

CARD B + CHANNEL

CARD B − CHANNEL

WIRE A1 +

WIRE A2 −

WIRE A1 −

WIRE +

T.S. − NUM.

T.S. + NUM.

KNIFE DISCONNECT TERMINALS
MARSH T.S. NAME

TO FIELD

CB_COM_DI
(027-D10)
(031-H07)
(027-F10)
-
-

CB_COM_DI
(027-D10)
(031-A07)
(027-F10)
+

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - TYPICAL WIRING DIGITAL INPUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00024

SHEET 031

REV. 3

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REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

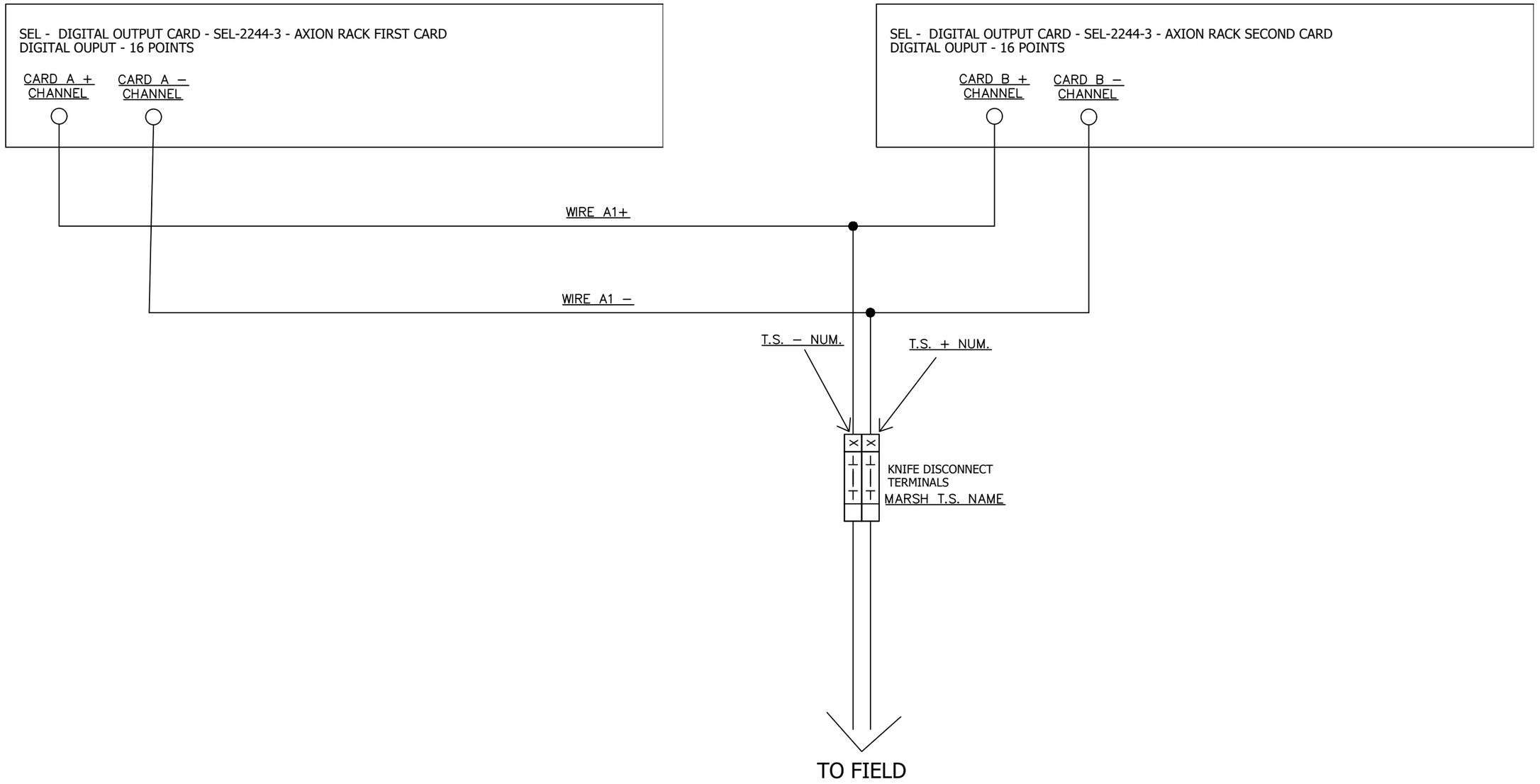
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SHEET 032

REV. 3

EMCS PANEL - TYPICAL WIRING DIGITAL OUTPUT

EMCS_D001



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - TYPICAL WIRING DIGITAL OUTPUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

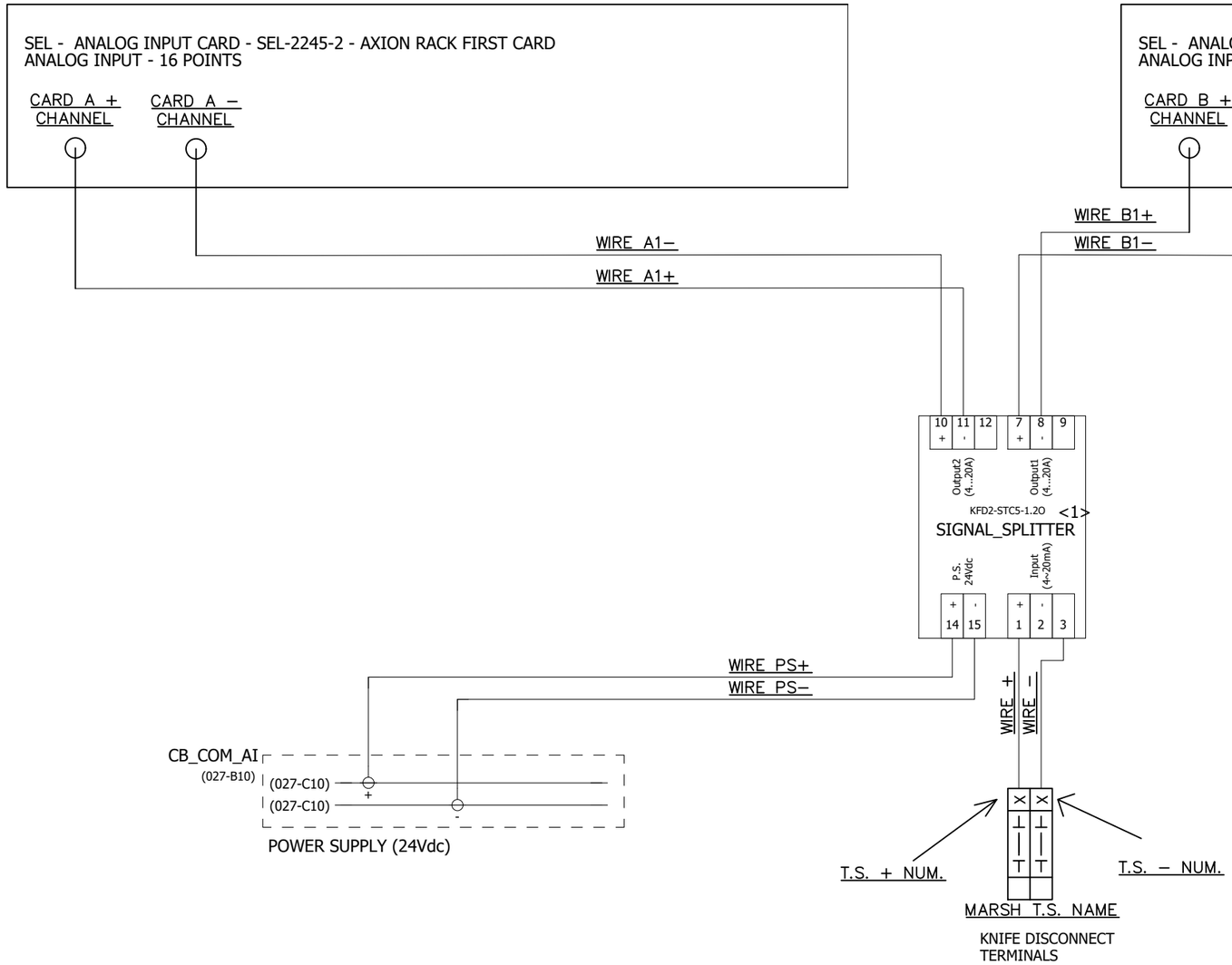
DRAWING NO. 1724000594-IN-DG-00024

SHEET 033

REV. 3

EMCS PANEL - TYPICAL WIRING ANALOG INPUT

EMCS_AI01



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - TYPICAL WIRING ANALOG INPUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

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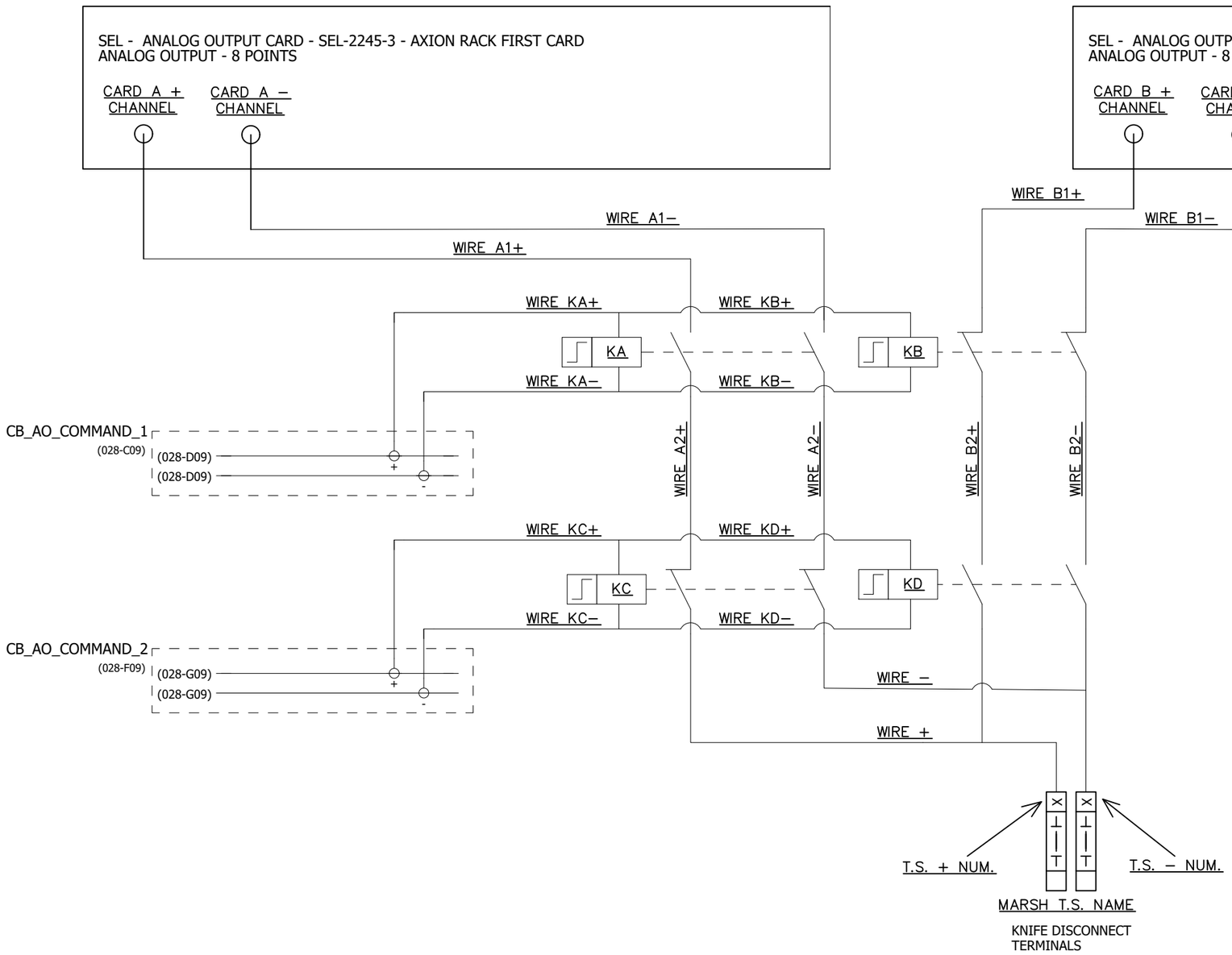
DRAWING NO. 1724000594-IN-DG-00024

SHEET 034

REV. 3

EMCS PANEL - TYPICAL WIRING ANALOG OUTPUT

EMCS_A001



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
3	04.09.2025	AMA	MGA	MDO	AS BUILT (ASB)
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	25.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	05.08.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - TYPICAL WIRING ANALOG OUTPUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00024

SHEET 035

REV. 3

<2> EMCS PANEL - DIGITAL INPUT SIGNALS

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE A1+	WIRE A1-	WIRE A2-	WIRE +	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	CARD (A&B) + CHANNEL	CARD (A&B) - CHANNEL	SLOT A&B	TYIPICAL	CHANNEL NUMBER
WS_DI01	DI	TB_DI	01	02	03601	03602	03603	03604	1mm²	BK	WH	1	10	E	EMCS_DI01	1
WS_DI02	DI	TB_DI	03	04	03605	==	==	03606	1mm²	BK	WH	2	10	E	EMCS_DI01	2
WS_DI03	DI	TB_DI	05	06	03607	==	==	03608	1mm²	BK	WH	3	10	E	EMCS_DI01	3
WS_DI04	DI	TB_DI	07	08	03609	==	==	03610	1mm²	BK	WH	4	10	E	EMCS_DI01	4
WS_DI05	DI	TB_DI	09	10	03611	==	==	03612	1mm²	BK	WH	5	10	E	EMCS_DI01	5
WS_DI06	DI	TB_DI	11	12	03613	==	==	03614	1mm²	BK	WH	6	10	E	EMCS_DI01	6
WS_DI07	DI	TB_DI	13	14	03615	==	==	03616	1mm²	BK	WH	7	10	E	EMCS_DI01	7
WS_DI08	DI	TB_DI	15	16	03617	==	==	03618	1mm²	BK	WH	8	10	E	EMCS_DI01	8
WS_DI09	DI	TB_DI	17	18	03619	==	==	03620	1mm²	BK	WH	9	10	E	EMCS_DI01	9
WS_DI13	DI	TB_DI	19	20	03621	03622	03623	03624	1mm²	BK	WH	17	26	E	EMCS_DI01	13
WS_DI14	DI	TB_DI	21	22	03625	==	==	03626	1mm²	BK	WH	18	26	E	EMCS_DI01	14
WS_DI15	DI	TB_DI	23	24	03627	==	==	03628	1mm²	BK	WH	19	26	E	EMCS_DI01	15
WS_DI16	DI	TB_DI	25	26	03629	==	==	03630	1mm²	BK	WH	20	26	E	EMCS_DI01	16
WS_DI17	DI	TB_DI	27	28	03631	==	==	03632	1mm²	BK	WH	21	26	E	EMCS_DI01	17
WS_DI18	DI	TB_DI	29	30	03633	==	==	03634	1mm²	BK	WH	22	26	E	EMCS_DI01	18
WS_DI19	DI	TB_DI	31	32	03635	==	==	03636	1mm²	BK	WH	23	26	E	EMCS_DI01	19
WS_DI20	DI	TB_DI	33	34	03637	==	==	03638	1mm²	BK	WH	24	26	E	EMCS_DI01	20
WS_DI21	DI	TB_DI	35	36	03639	==	==	03640	1mm²	BK	WH	25	26	E	EMCS_DI01	21
SPARE	DI	TB_DI	37	38	03641	03642	N/A	N/A	1mm²	BK	WH	11	12	E	EMCS_DI01	10
SPARE	DI	TB_DI	39	40	03643	03644	N/A	N/A	1mm²	BK	WH	13	14	E	EMCS_DI01	11

NOTE: FOR CHANNEL NUMBER 12, 22, 23, 24 CHECK PAGE 26 (INTERNAL FAULT SYSTEM)

YOKOGAWA ◆ PROJECT Nr. E36672C00
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CROSSWIND

ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - DIGITAL INPUT SIGNALS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00024

SHEET 036

REV. 3

EMCS PANEL - DIGITAL OUTPUT SIGNALS

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE A1+	WIRE A1-	WIRE A2-	WIRE +	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	CARD (A&B) + CHANNEL	CARD (A&B) - CHANNEL	SLOT A&B	TYIPICAL	CHANNEL NUMBER
CMD ISLAND MODE TO BESS (TB KNIVES TEMPORARILY OPEN)	DO	TB_DO	01	02	03701	03702	N/A	N/A	1mm²	BK	WH	1	2	F	EMCS_DO01	1
WS_DO02	DO	TB_DO	03	04	03703	03704	N/A	N/A	1mm²	BK	WH	3	4	F	EMCS_DO01	2
WS_DO03	DO	TB_DO	05	06	03705	03706	N/A	N/A	1mm²	BK	WH	5	6	F	EMCS_DO01	3
WS_DO04	DO	TB_DO	07	08	03707	03708	N/A	N/A	1mm²	BK	WH	7	8	F	EMCS_DO01	4
WS_DO05	DO	TB_DO	09	10	03709	03710	N/A	N/A	1mm²	BK	WH	9	10	F	EMCS_DO01	5
WS_DO06	DO	TB_DO	11	12	03711	03712	N/A	N/A	1mm²	BK	WH	11	12	F	EMCS_DO01	6
WS_DO07	DO	TB_DO	13	14	03713	03714	N/A	N/A	1mm²	BK	WH	13	14	F	EMCS_DO01	7
WS_DO08	DO	TB_DO	15	16	03715	03716	N/A	N/A	1mm²	BK	WH	15	16	F	EMCS_DO01	8
WS_DO09	DO	TB_DO	17	18	03717	03718	N/A	N/A	1mm²	BK	WH	17	18	F	EMCS_DO01	9
WS_DO10	DO	TB_DO	19	20	03719	03720	N/A	N/A	1mm²	BK	WH	19	20	F	EMCS_DO01	10
WS_DO11	DO	TB_DO	21	22	03721	03722	N/A	N/A	1mm²	BK	WH	21	22	F	EMCS_DO01	11
WS_DO12	DO	TB_DO	23	24	03723	03724	N/A	N/A	1mm²	BK	WH	23	24	F	EMCS_DO01	12
WS_DO13	DO	TB_DO	25	26	03725	03726	N/A	N/A	1mm²	BK	WH	25	26	F	EMCS_DO01	13
WS_DO14	DO	TB_DO	27	28	03727	03728	N/A	N/A	1mm²	BK	WH	27	28	F	EMCS_DO01	14
SPARE	DO	TB_DO	29	30												
SPARE	DO	TB_DO	31	32												

NOTE: FOR CHANNEL NUMBER OUT15, 16 CHECK PAGE 28 (AO SWITCH COMMAND)

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - DIGITAL OUTPUT SIGNALS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00024

SHEET 037

REV. 3

EMCS PANEL - ANALOG INPUT SIGNALS

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE +	WIRE -	WIRE A1+	WIRE A1-	WIRE B1+	WIRE B1-	WIRE SECTION (A&B)	WIRE COLOUR + (A&B)	WIRE COLOUR - (A&B)	WIRE PS+	WIRE PS-	WIRE SECTION PS	WIRE COLOUR PS +	WIRE COLOUR PS -	SIGNAL SPLITTER	CARD (A&B) + CHANNEL	CARD (A&B) - CHANNEL	SLOT	TYPICAL	CHANNEL NUMBER
WS_AI01	AI	TB_AI	1	2	03801	03802	03803	03804	03805	03806	1mm²	BK	WH	02811	02812	1,5mm²	RD	BU	SSP1	1	2	C	EMCS_AI01	1
WS_AI02	AI	TB_AI	3	4	03807	03808	03809	03810	03811	03812	1mm²	BK	WH	02813	02814	1,5mm²	RD	BU	SSP2	4	5	C	EMCS_AI01	2
WS_AI03	AI	TB_AI	5	6	03813	03814	03815	03816	03817	03818	1mm²	BK	WH	02815	02816	1,5mm²	RD	BU	SSP3	6	7	C	EMCS_AI01	3
WS_AI04	AI	TB_AI	7	8	03819	03820	03821	03822	03823	03824	1mm²	BK	WH	02817	02818	1,5mm²	RD	BU	SSP4	9	10	C	EMCS_AI01	4
WS_AI05	AI	TB_AI	9	10	03825	03826	03827	03828	03829	03830	1mm²	BK	WH	02819	02820	1,5mm²	RD	BU	SSP5	11	12	C	EMCS_AI01	5
WS_AI06	AI	TB_AI	11	12	03831	03832	03833	03834	03835	03836	1mm²	BK	WH	02821	02822	1,5mm²	RD	BU	SSP6	14	15	C	EMCS_AI01	6
WS_AI07	AI	TB_AI	13	14	03837	03838	03839	03840	03841	03842	1mm²	BK	WH	02823	02824	1,5mm²	RD	BU	SSP7	16	17	C	EMCS_AI01	7
WS_AI08	AI	TB_AI	15	16	03843	03844	03845	03846	03847	03848	1mm²	BK	WH	02825	02826	1,5mm²	RD	BU	SSP8	19	20	C	EMCS_AI01	8
WS_AI09	AI	TB_AI	17	18	03849	03850	03851	03852	03853	03854	1mm²	BK	WH	02827	02828	1,5mm²	RD	BU	SSP9	21	22	C	EMCS_AI01	9
WS_AI10	AI	TB_AI	19	20	03855	03856	03857	03858	03859	03860	1mm²	BK	WH	02829	02830	1,5mm²	RD	BU	SSP10	24	25	C	EMCS_AI01	10
WS_AI11	AI	TB_AI	21	22	03861	03862	03863	03864	03865	03866	1mm²	BK	WH	02831	02832	1,5mm²	RD	BU	SSP11	26	27	C	EMCS_AI01	11
WS_AI12	AI	TB_AI	23	24	03867	03868	03869	03870	03871	03872	1mm²	BK	WH	02833	02834	1,5mm²	RD	BU	SSP12	29	30	C	EMCS_AI01	12
WS_AI13	AI	TB_AI	25	26	03873	03874	03875	03876	03877	03878	1mm²	BK	WH	02835	02836	1,5mm²	RD	BU	SSP13	31	32	C	EMCS_AI01	13
WS_AI14	AI	TB_AI	27	28	03879	03880	03881	03882	03883	03884	1mm²	BK	WH	02837	02838	1,5mm²	RD	BU	SSP14	34	35	C	EMCS_AI01	14
WS_AI15	AI	TB_AI	29	30	03885	03886	03887	03888	03889	03890	1mm²	BK	WH	02839	02840	1,5mm²	RD	BU	SSP15	36	37	C	EMCS_AI01	15
WS_AI16	AI	TB_AI	31	32	03891	03892	03893	03894	03895	03896	1mm²	BK	WH	02841	02842	1,5mm²	RD	BU	SSP16	39	40	C	EMCS_AI01	16

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YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-EMCS_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EMCS CABINET WIRING DIAGRAMS AND TERMINAL STRIPS
EMCS PANEL - ANALOG INPUT SIGNALS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 038

REV. 3

EMCS PANEL - ANALOG OUTPUT SIGNALS (SIGNAL PART)

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE +	WIRE -	WIRE A1+	WIRE A1-	WIRE B1+	WIRE B1-	WIRE A2+	WIRE A2-	WIRE B2+	WIRE B2-	WIRE SECTION (A&B)	WIRE COLOUR + (A&B)	WIRE COLOUR - (A&B)	CARD (A&B) + CHANNEL	CARD (A&B) - CHANNEL	SLOT	CHANNEL NUMBER
SPARE	AO	TB_AO	1	2	03901	03902	03903	03904	03905	03906	03907	03908	03909	03910	1mm²	BK	WH	1	2	D	1
WS_AO02	AO	TB_AO	3	4	03911	03912	03913	03914	03915	03916	03917	03918	03919	03920	1mm²	BK	WH	4	5	D	2
WS_AO03	AO	TB_AO	5	6	03921	03922	03923	03924	03925	03926	03927	03928	03929	03930	1mm²	BK	WH	6	7	D	3
WS_AO04	AO	TB_AO	7	8	03931	03932	03933	03934	03935	03936	03937	03938	03939	03940	1mm²	BK	WH	9	10	D	4
WS_AO05	AO	TB_AO	9	10	03941	03942	03943	03944	03945	03946	03947	03948	03949	03950	1mm²	BK	WH	11	12	D	5
WS_AO06	AO	TB_AO	11	12	03951	03952	03953	03954	03955	03956	03957	03958	03959	03960	1mm²	BK	WH	14	15	D	6
WS_AO07	AO	TB_AO	13	14	03961	03962	03963	03964	03965	03966	03967	03968	03969	03970	1mm²	BK	WH	16	17	D	7
WS_AO08	AO	TB_AO	15	16	03971	03972	03973	03974	03975	03976	03977	03978	03979	03980	1mm²	BK	WH	19	20	D	8

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EMCS PANEL - ANALOG OUTPUT SIGNALS (SIGNAL PART)

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00024

SHEET 039

REV. 3

EMCS PANEL - ANALOG OUTPUT SIGNALS (SWITCH PART)

KA	KB	KC	KD	WIRE KA+	WIRE KA-	WIRE KB+	WIRE KB-	WIRE KC+	WIRE KC-	WIRE KD+	WIRE KD-	TYPICAL
KA1	KA2	KA3	KA4	04001	04002	04003	04004	04005	04006	04007	04008	EMCS_AO1
KA5	KA6	KA7	KA8	04009	04010	04011	04012	04013	04014	04015	04016	EMCS_AO1
KA9	KA10	KA11	KA12	04017	04018	04019	04020	04021	04022	04023	04024	EMCS_AO1
KA13	KA14	KA15	KA16	04025	04026	04027	04028	04029	04030	04031	04032	EMCS_AO1
KA17	KA18	KA19	KA20	04033	04034	04035	04036	04037	04038	04039	04040	EMCS_AO1
KA21	KA22	KA23	KA24	04041	04042	04043	04044	04045	04046	04047	04048	EMCS_AO1
KA25	KA26	KA27	KA28	04049	04050	04051	04052	04053	04054	04055	04056	EMCS_AO1
KA29	KA30	KA31	KA32	04057	04058	04059	04060	04061	04062	04063	04064	EMCS_AO1

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EMCS PANEL - ANALOG OUTPUT SIGNALS (SWITCH PART)

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00024

SHEET 040

REV. 3